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APPLICATION NO.	FILING DATE	FIRST NAMED INVENTOR	ATTORNEY DOCKET NO.	CONFIRMATION NO.
10/538,869	06/14/2005	Yasumasa Watanabe	4706-03	5889
	7590 01/11/200 NDERHYE, PC	EXAMINER		
901 NORTH GLEBE ROAD, 11TH FLOOR			RABAGO, ROBERTO	
ARLINGTON, VA 22203			ART UNIT	PAPER NUMBER
			1796	
			MAIL DATE	DELIVERY MODE
			01/11/2008	PAPER

Please find below and/or attached an Office communication concerning this application or proceeding.

The time period for reply, if any, is set in the attached communication.

· · · · · · · · · · · · · · · · · · ·	Application No.	Applicant(s)			
		WATANABE ET AL.			
Office Action Summary	10/538,869				
,	Examiner Débase	Art Unit			
The MAILING DATE of this communication ap	Roberto Rábago	1796			
Period for Reply	opears on the cover sheet wi	and correspondence address			
A SHORTENED STATUTORY PERIOD FOR REP WHICHEVER IS LONGER, FROM THE MAILING I Extensions of time may be available under the provisions of 37 CFR 1 after SIX (6) MONTHS from the mailing date of this communication. If NO period for reply is specified above, the maximum statutory perior. Failure to reply within the set or extended period for reply will, by statu Any reply received by the Office later than three months after the mail earned patent term adjustment. See 37 CFR 1.704(b).	DATE OF THIS COMMUNIC .136(a). In no event, however, may a red d will apply and will expire SIX (6) MON ate, cause the application to become AB	CATION. eply be timely filed THS from the mailing date of this communication. ANDONED (35 U.S.C. § 133).			
Status					
1) Responsive to communication(s) filed on 14	December 2007.				
2a) ☐ This action is FINAL . 2b) ☑ Th	This action is FINAL . 2b)⊠ This action is non-final.				
3) Since this application is in condition for allow	•	•			
closed in accordance with the practice under	Ex parte Quayle, 1935 C.D	. 11, 453 O.G. 213.			
Disposition of Claims					
4) ⊠ Claim(s) 1-3,5-7,10,13,16 and 17 is/are pend 4a) Of the above claim(s) is/are withdrest 5) ⊠ Claim(s) 2,3,5-7 and 17 is/are allowed. 6) ⊠ Claim(s) 1,10,13 and 16 is/are rejected. 7) □ Claim(s) is/are objected to. 8) □ Claim(s) are subject to restriction and	awn from consideration.				
Application Papers					
9) The specification is objected to by the Examir					
10) The drawing(s) filed on is/are: a) ac					
Applicant may not request that any objection to the	*	···			
Replacement drawing sheet(s) including the corre	,	, , , ,			
Priority under 35 U.S.C. § 119					
12) Acknowledgment is made of a claim for foreign a) All b) Some * c) None of: 1. Certified copies of the priority documents. 2. Certified copies of the priority documents. 3. Copies of the certified copies of the priority application from the International Bure. * See the attached detailed Office action for a list	nts have been received. nts have been received in A iority documents have been au (PCT Rule 17.2(a)).	pplication No received in this National Stage			
Attachment(s) 1) Motice of References Cited (PTO-892)	4) ☐ Interview S	Summary (PTO-413)			
2) Notice of Praftsperson's Patent Drawing Review (PTO-948) 3) Information Disclosure Statement(s) (PTO/SB/08) Paper No(s)/Mail Date	Paper No(s	s)/Mail Date nformal Patent Application			

DETAILED ACTION

1. Prosecution in this application is reopened in view of new grounds of rejection as set forth below. The amendment filed 12/14/2007 is entered.

Remarks on Claim Interpretation

In the amendment filed 3/21/2007, claims 1 and 2 were amended to require that the process occur "without causing cross-linking and degradation of the ethylene- α -olefin copolymer." Applicants' remarks filed concurrently therewith stated "the heating causes neither cross-linking nor degradation of the ethylene- α -olefin copolymer (the starting material)." The aforementioned limitation has been interpreted as stated in applicants' remarks.

Claim Rejections - 35 USC § 102

3. The following is a quotation of the appropriate paragraphs of 35 U.S.C. 102 that form the basis for the rejections under this section made in this Office action:

A person shall be entitled to a patent unless -

- (a) the invention was known or used by others in this country, or patented or described in a printed publication in this or a foreign country, before the invention thereof by the applicant for a patent.
- 4. Claims 1, 10, 13 and 16 are rejected under 35 U.S.C. 102(a) as being anticipated by WO 03/078487.

10/538,869

Art Unit: 1796

The reference discloses the making of functionalized polyolefins by grafting unsaturated monomers to a polyolefin using a hydroperoxide radical initiator, wherein the process does not cause crosslinking or degradation (see abstract). The reference does not discuss hydroxyl modification, but rather teaches grafting polar monomers to the polyolefin backbone, and it cannot be determined whether hydroxyl groups are being introduced into the copolymer in the methods according to the invention. However, Comparative Example 4 discloses a process of reacting EPDM with 1% tbutyl hydroperoxide, without supplemental monomer, at temperatures up to 220°C. apparently in a twin screw extruder (see also page 6, lines 10-12), to yield a reaction product. The method includes all claimed limitations except for a reporting of the Mooney viscosity and hydroxyl incorporation. However, the claimed viscosity would appear to be inherent because applicants have claimed substantially the entire range of Mooney viscosities expected for the type of resin used in the reference, and hydroxyl modification would appear to have inherently occurred because the method is substantially the same as applicants' Example 2. The burden of proof is shifted to applicants to show that the cited reference example would not have the claimed unreported properties.

Applicant cannot rely upon the foreign priority papers to overcome this rejection because a translation of said papers has not been made of record in accordance with 37 CFR 1.55. See MPEP § 201.15.

10/538,869 Art Unit: 1796

- 5. Claims 2, 3, 5-7 and 17 are allowed.
- 6. Any inquiry concerning this communication or earlier communications from the examiner should be directed to Roberto Rábago whose telephone number is (571) 272-1109. The examiner can normally be reached on Monday Friday from 8:00 4:00.

If attempts to reach the examiner by telephone are unsuccessful, the examiner's supervisor, David Wu can be reached on (571) 272-1114. The fax phone number for the organization where this application or proceeding is assigned is 571-273-8300.

Information regarding the status of an application may be obtained from the Patent Application Information Retrieval (PAIR) system. Status information for published applications may be obtained from either Private PAIR or Public PAIR. Status information for unpublished applications is available through Private PAIR only. For more information about the PAIR system, see http://pair-direct.uspto.gov. Should you have questions on access to the Private PAIR system, contact the Electronic Business Center (EBC) at 866-217-9197 (toll-free). If you would like assistance from a USPTO Customer Service Representative or access to the automated information system, call 800-786-9199 (IN USA OR CANADA) or 571-272-1000.

Roberto Rábago Primary Examiner

Art Unit 1796

RR January 10, 2008